

--11. (Amended) The audio processing method as claimed in claim 8, wherein when said single-ear mount type earphone is mounted to said telephone set main body unit said signal level of said ambient sound is fixed.--

REMARKS

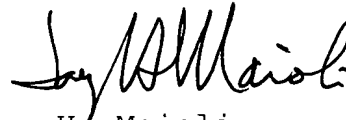
Claims 1-11 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicant is a citizen and resident of Japan and this application originated there.

Accordingly, the amendments to the specification are made to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted,
COOPER & DUNHAM, LLP



Jay H. Maioli
Reg. No. 27,213

JHM/AVF/pmc

VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN THE ABSTRACT OF THE DISCLOSURE

The Abstract of the Disclosure has been amended as follows:

--[To automatically set an optimal signal level of an ambient sound according to earphone type even in the case where either of both-ear mount type and single-ear mount type earphones is mounted to a telephone set main body unit, and to recognize the ambient sound even in the case where a stereo headphone almost covering ears is used.]

A [hand held] handheld telephone set used by connecting a [both-ear] dual-ear mount type or single-ear mount type earphone [or thereto is] that automatically sets an optimal signal level of an ambient sound according to the earphone type used, provided with: a telephone set main body unit[;] a detection [means] device for detecting which type of [these earphones and] earphone is mounted to the telephone set main body unit[;], an amplifier for amplifying [an] the ambient sound to be delivered to [these earphones and;] the earphone, and a control device for controlling a signal level of the ambient sound output from [this] the amplifier according to an output of the detection [means] device. When either of these earphones [and] is mounted, the control device controls the signal level of the ambient sound output from the amplifier to be fed back according to an output of the detection [means] device.--

IN THE CLAIMS

--7. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that,] wherein said ambient sound is acquired by a microphone [for a speaker].

--8. (Amended) An audio processing method performed in a [hand held] handheld telephone set [to be] used by connecting an earphone to a telephone set main body unit, [said audio processing method characterized in that, previously] comprising the steps of: detecting which of a [both-ear] dual-ear mount type earphone and a single-ear mount type earphone is mounted to said telephone set main body unit [is detected, when the ambient sound is superposed on said earphone, the] and adjusting a signal level of [the] an ambient sound [is adjusted] according to said earphone type when said ambient sound is superposed on said earphone.

--9. (Amended) The audio processing method as claimed in claim 8, [characterized in that, in the case where] wherein when said [both-ear] dual-ear mount type earphone is mounted to [the] said telephone set main body unit[, the] said signal level of said ambient sound is increased, and [in the case where] when said single-ear mount type earphone is mounted to [the] said telephone set main body unit[, the] said signal level of said ambient sound is [lowered] decreased.

--10. (Amended) The audio processing method as claimed in claim 8, [characterized in that, in the case where] wherein

when said [both-ear] dual-ear mount type earphone is mounted to [the] said telephone set main body unit[, the] said signal level of said ambient sound is controlled [to be fed back] by feedback according to [the] an analog audio signal delivered to said earphone.

--11. (Amended) The audio processing method as claimed in claim 8, [characterized in that, in the case where] wherein when said single-ear mount type earphone is mounted to [the] said telephone set main body unit[, the] said signal level of said ambient sound is fixed.--

Claims 1-11 have been amended as follows:

--1. (Amended) A [hand held] handheld telephone set [to be] used by connecting [at least] an earphone, [said hand held telephone set characterized by] comprising:

a telephone set main body unit;

detecting means for detecting which of a [both-ear] dual-ear mount type earphone and a single-ear mount type earphone is mounted to said telephone set main body unit;

an amplifier for amplifying an ambient sound and delivering [the] said sound to said earphone; and

a control device for adjusting a signal level of [the] said ambient sound output from said amplifier according to an output of said [detection] detecting means.

--2. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that, in the case where] wherein when said [both-ear] dual-ear mount type earphone is mounted to [the] said telephone set main body unit[, a gain of said amplifier is increased[, thereby improving the] to increase said signal level of [the ambient] said sound output from said amplifier, and [in the case where] when said [single-ear] single-ear mount type earphone is mounted to [the] said telephone set main body unit[, the] said gain of said amplifier is reduced[, thereby lowering the] to decrease said signal level of [the ambient] said sound output from said amplifier.

--3. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that, in the case where] wherein when said [both-ear] dual-ear mount type earphone is mounted to [the] said telephone set main body unit[,] said control device controls [the] a gain of said amplifier [to be fed back] by feedback according to an analog audio signal delivered to said earphone.

--4. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that, in the case where] wherein when said single-ear mount type earphone is mounted to [the] said telephone set main body unit[,] said control device fixes [the] a gain of said amplifier according to an output of said detection means.

--5. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that,] wherein said amplifier superposes a digital signal on a digital audio signal according to said ambient sound [on a digital audio signal].

--6. (Amended) The [hand held] handheld telephone set as claimed in claim 1, [characterized in that,] wherein said amplifier superposes an analog signal on an analog audio signal according to said ambient sound [on a analog audio signal].